OLEOPHILIC BICYCLIC SILICIC ACID DERIVATIVE HAVING BIRDCAGE-SHAPED STRUCTURE AND ITS PRODUCTION AND USE

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The invention relates to organophilic double-ring silicic acid derivatives having cage-like structures of the general formula I in which y is 6, 8 or 10, n is zero to (y - 1), R<1>, R<2> and R<3> are phenyl or C1-5-alkyl, and Q is H, OH, halogen, haloalkyl, halophenyl, ethylphenyl, a primary alkanol radical, C2-20-alkyl, C2-8-alkenyl, epoxy, silylalkyl, siloxanylalkyl, phenylmethylsilylalkyl, phenyl, alkenyl- or amine-substituted phenyl, a carboxylic acid radical or a carboxylic acid derivative radical. The novel compounds form polymers. Due to their strength and temperature- and etching-resistance, they can be employed as coating agents, but also as absorbents. Preparation processes are described.